1/3

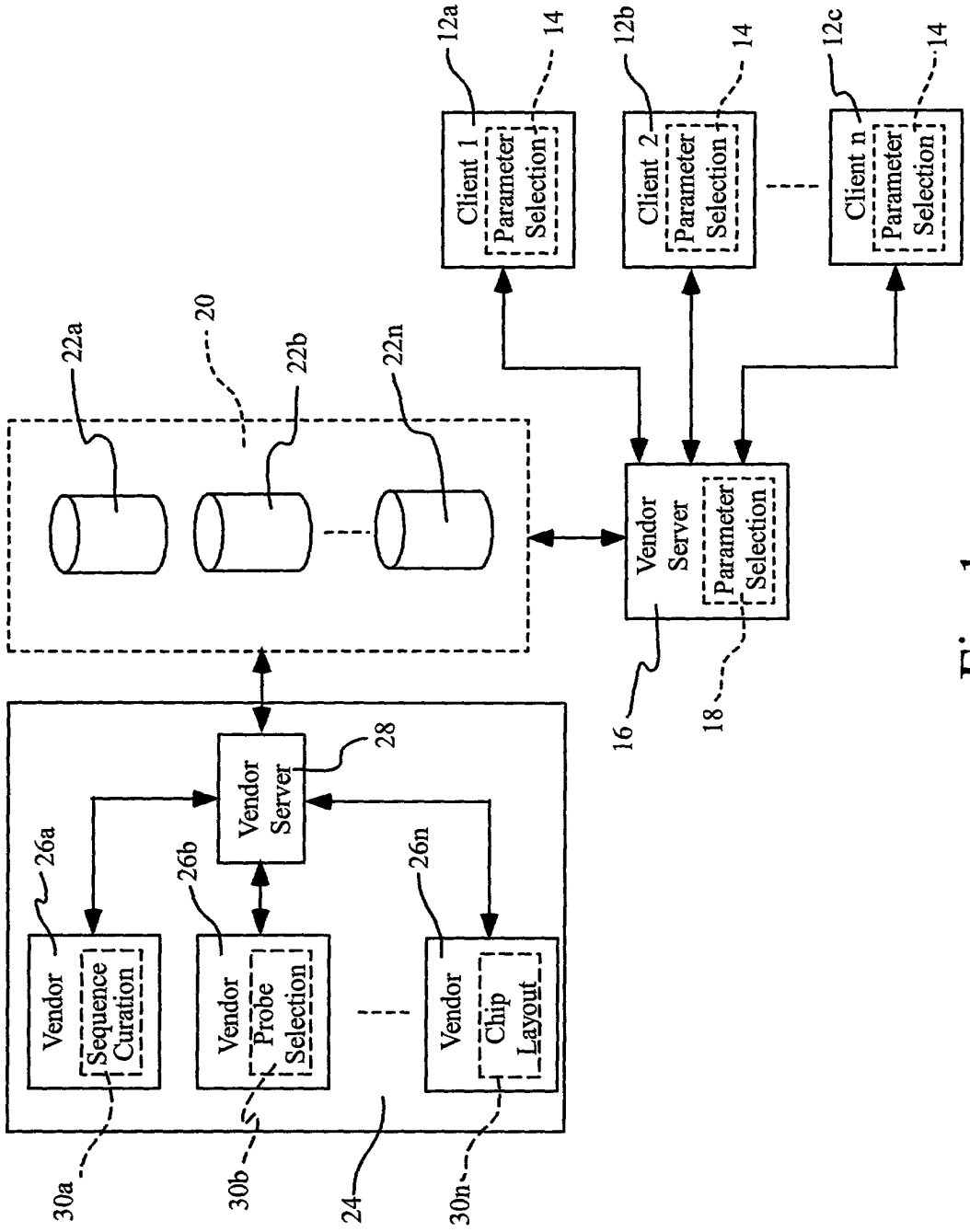
12a
14
Client 1
Parameter
Selection
12b
14
Client 2
Parameter
Selection
12c
14
Client n
Parameter
Selection
22a
20
22b
22n
Vendor
Server
Parameter
Selection
16
18
28
Vendor
Server
26a
26b
26n
Vendor
Sequence
Curation
Vendor
Probe
Selection
Vendor
Chip
Layout
30a
30b
24
30n

Fig. 1

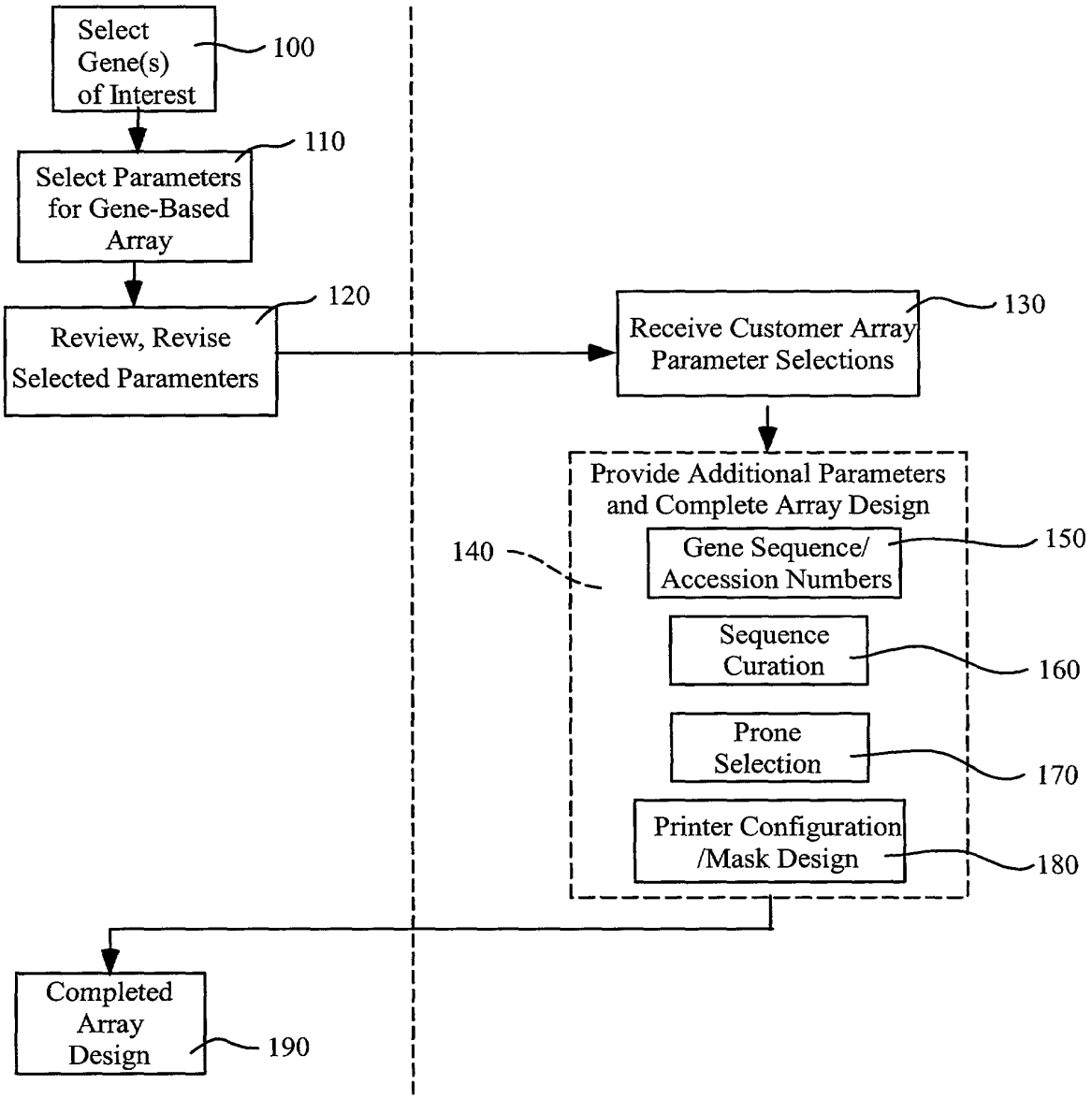
Select Gene(s) of Interest
100
Select Parameters for Gene-Based Array
110
Review, Revise Selected Paramenters
120
Receive Customer Array Parameter Selections
130
Provide Additional Parameters and Complete Array Design
140
Gene Sequence/ Accession Numbers
150
Sequence Curation
160
Prone Selection
170
Printer Configuration /Mask Design
180
Completed Array Design
190

Fig. 2

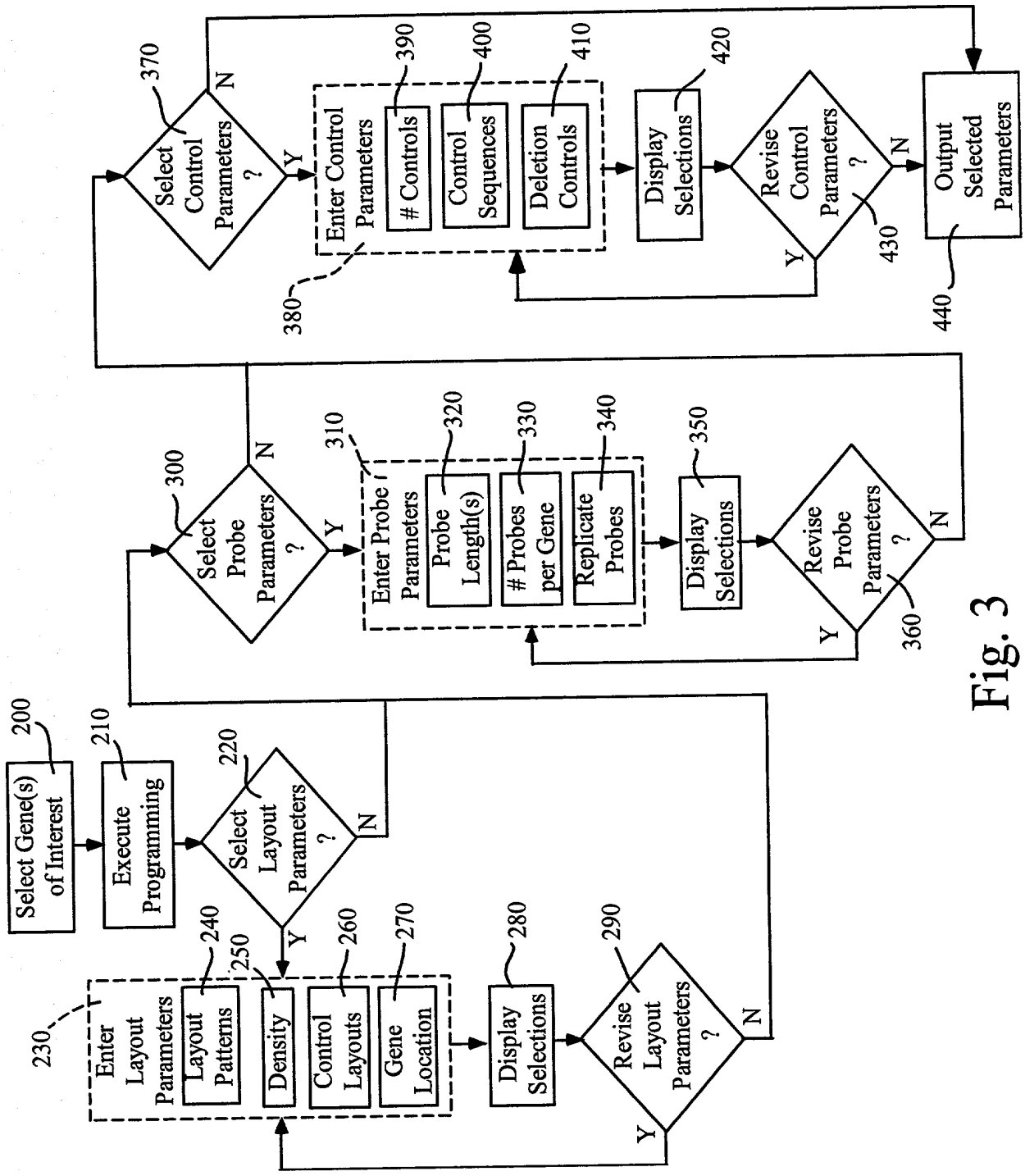
Select Gene(s) of Interest
200
Execute Programming
210
Select Layout Parameters ?
220
N
Y
Enter Layout Parameters
230
Layout Patterns
240
Density
250
Control Layouts
260
Gene Location
270
Display Selections
280
Revise Layout Parameters ?
290
N
Y
Select Probe Parameters ?
300
N
Y
Enter Probe Parameters
310
Probe Length(s)
320
# Probes per Gene
330
Replicate Probes
340
Display Selections
350
Revise Probe Parameters ?
360
N
Y
Select Control Parameters ?
370
N
Y
Enter Control Parameters
380
# Controls
390
Control Sequences
400
Deletion Controls
410
Display Selections
420
Revise Control Parameters ?
430
N
Y
Output Selected Parameters
440

Fig. 3